

Amendments to the Specification:

Pursuant to 37 C.F.R. § 1.121(b) kindly amend the specification as follows. Amendments to the specification are made by presenting replacement paragraphs or sections marked up to show changes made relative to the immediate prior version. The changes in any amended paragraph or section are being shown by strikethrough (for deleted matter) or underlined (for added matter).

On page 5, replace the third paragraph as follows:

Figure 1 describes the architecture of the system(1). The participants in the system processes are the material vendor (11), the test data provider(10) which is typically a test laboratory, the system administrator (12), the data owner (14) and various analytic software (13) and users (14) of the system who wish to access material property data through a user interface (16). Outlined in Figure 1 are the main processes of the system and the mechanisms to support such processes. These processes are detailed below. Different kinds of users may have varied interactions with the system (20), as shown in Figure 2. Data providers, typically test laboratories (21) contribute property datasets to the repository. They have the ability to add and review property datasets. Data providers may transfer ownership of property datasets to data owners (22), typically, their client. Data users (23) retrieve property datasets relating to properties of various materials from the repository(26). The system allows data owners to define policies for access to each property dataset (22). For example, the system allows a data owner to label a property dataset that they own as 'private'. No other data user is permitted access to any data that is part of the dataset. The system (20) provides the ability for a data user to request a data owner for access to private datasets. The system (20) allows a data owner to sell access to the dataset. The system (20) allows a data owner to monitor the usage of their datasets.

On page 7, replace the first full paragraph (lines 4-14), as follows:

Referring to figure 3, property datasets (30) are collections of information (43) or data elements, and one or more results (42) that are derived from the performance of a test on a material sample. A sample is defined as a specific instance of a given material. Both the information (43) about the material (41) and the sample (36) used in the measurement of a

property form a part of the property dataset. The results (42) may be in different forms ranging from single point data (40) to data arrays and graphs (37) capturing the dependencies of the property with respect to different parameters. Results may also comprise equation coefficients (39) as would be obtained when arrays of data are fit to various mathematical equations. Results may also be pictures(38) such as would be obtained from microscopic analysis. Parameters (31) define the variables that are reported in the context of a property measurement.

On page 12, replace the third full paragraph (lines 14-20) as follows:

Within the summary of results for a test, each result is identified by its name (50) along with the parameters that define the result. Results which share defining parameters are grouped visually to permit the user to examine dependencies of the properties on the parameters. In one embodiment each such group presents a hyperlink which would lead to a more detailed presentation of the results for that group. Such a detailed presentation ([figure 5](#)) involves a visual rendering of Graphs, (51) equations that describe the data, multi-dimensional tables and pictures.

On page 12, replace the last paragraph (lines 23-27) as follows:

The second approach ([Figures 6 and 7](#)) consists of allowing the user (61) to drill down to locate the desired data using a guided approach whereby the user is able to specify their requirements for desired data. Such requirements include the class or subclass of material, the material supplier, the property name, the material name and constraints on values of the property.

On page 13, replace the third paragraph (lines 12-21) as follows:

At this point if the user (72) does not have sufficient access privileges for their data, they are automatically presented with a form which allows them to request for access ([73](#)) to the data. The data owner (71) would be notified about such requests (75) along with basic identification and contact information about the requesting user. The system (70) provides the data owner with a Web form containing a list of such requests, each identifying the dataset and the requesting user. Alongside each request for access are options to accept or reject the request ([74](#)). Upon submission of the form, the access profile for datasets, whose access requests have been accepted, is updated to include the requesting users (76). All requesting users are notified of the data owner's action (77), whatever it may be.